6. Next, turn the Main Power Switch to the "OFF" position and make sure the Safety Switch is in the "SAFE" position.
7. Measure the appropriate charge of granular powder, or select an appropriate number of powder pellets (see "PROPELLANTS" section above). With the muzzle in an upward facing direction, pour the powder or drop the pellets into the muzzle.
8. Place the bullet into the muzzle of the barrel and, using a bullet starter, start the bullet into the bore. Then use a ramrod to push the bullet down the barrel until it contacts the powder charge. **If using pellets, continue to exert pressure until you feel a "secondary seating" of about 1/8 of an inch as the first pellet seats firmly onto the breech plug face (actually, the edge of the pellet crushing slightly on the raised grounding electrode on the breech plug). This "secondary seating" is a design feature of the rifle and is very important to insure the optimal ignition of pelletized propellants. Note: When using Hodgdon Triple 7 Pellets, in particular, this procedure is absolutely necessary to insure acceptable ignition times.**

FIRING YOUR CVA ELECTRA MUZZLELOADING RIFLE

1. With the muzzle pointing in a safe direction turn the Main Power Switch to the "ON" position (the Status Indicator Light should glow solid red). After about 25 to 30 seconds, the light will begin to blink, indicating that the ignition is fully charged and the rifle is ready to fire.
2. With the muzzle pointing at the intended target, and hearing and vision protection in place, push the Safety Switch forward into the "FIRE" position, verify the target, aim, then squeeze the trigger to fire the rifle. *Note: If properly functioning, the safety lever will return to the "SAFE" position after each firing.*
3. Reload the rifle by following steps 6 - 9 again. **Tech Note: After every 4 to 5 shots the breech plug face should be cleaned with the Electra Breech Plug Brush, followed by a damp patch and a dry patch. Cleaning the breech face with the Electra Breech Plug Brush is essential to achieving reliable and full-powered ignition of the ARC Electronic Ignition System.** Also, you may find that some powders and/or bullets may provide more consistent accuracy if you run a slightly damp patch down the barrel between every shot.

Important Warning: For quick follow-up shots at game animals, the circuitry of the Electra allows you approximately 25 to 30 seconds to reload before the capacitor is fully charged – but the gun will be capable of firing after as few as 10 to 15 seconds and before the Status Indicator Light begins to flash. While the safety mechanism will automatically reset to "SAFE" after each firing, and must be in the "FIRE" position (and the trigger must pulled) to allow completion the electronic circuit, if you desire an extra measure of safety, it is recommended that you turn the Main Power Switch to the "OFF" position.

Note: If your rifle does not fire (usually the result of excess fouling or solvent on the breech plug face), wait at least 1 minute and pull the trigger again. If this does not fire the gun turn the main power switch to the "OFF" position, wait at least 1 minute, disassemble the gun and remove the breech plug from the barrel. Clean the breech plug face with a brush and solvent patch, with the muzzle pointed in a safe direction, and, after the Status Indicator Light begins to blink, pull the trigger to fire the gun. Once the gun has fired, you can the resume normal firing and reloading procedures. If the gun still does not fire after following the above described process, turn the main power switch to the "off" position, thoroughly soak the powder charge with water (at least 30 min.), then remove the breech plug and push the charge out with a ramrod.

CLEANING YOUR CVA ELECTRA MUZZLELOADER

One advantage of the Electra's ARC™ Electronic Ignition is that the need for a 209 primer is eliminated, and, therefore, the fouling that would normally exit a primer flash hole is eliminated. It is because of this design that the Electra does not get as dirty with fouling as would a conventional primer ignition muzzleloader.

There are two methods for cleaning the Electra rifle – The "Abbreviated Cleaning Method" and the "Complete Cleaning Method." One of these two cleaning methods should be employed after each shooting session or hunt, as leaving corrosive powders in the bore, even overnight, is inviting corrosion damage that will not be covered by your warranty and could even render your gun unsafe to shoot.

For routine "in-season" cleaning, under normal weather conditions, the "Abbreviated Cleaning Method" is all that is required. The "Complete Cleaning Method" is only necessary after lengthy range sessions, extremely wet weather conditions, or before the gun goes into long-term storage – say, after the hunting season is over. Both of these methods are outlined below.

While many cleaning products are on the market, we recommend that you use the CVA Barrel Blaster™ line of products for your CVA rifle (visit www.cva.com for more information). However, regardless of the brand of products you choose, you will need to carefully follow the instructions below to insure that your rifle is cleaned properly.

ABBREVIATED CLEANING METHOD

1. Turn the gun's On / Off Switch to the "OFF" position, making sure the Status Indicator Light is not lighted.

2. **Attach the Electra Breech Brush to the Range Rod and scrub the breech face, rotating the brush both clockwise and counter-clockwise. See Photo 3**

Photo 3

3. Attach a Bore Brush to the Range Rod and work the brush up and down through the barrel.
4. Run two damp patches to remove the fouling debris loosened by the brushing procedures.
5. Using Barrel Blaster™ Wonder-Gel or some other high quality black powder solvent, follow the cleaning directions as given on the package until patches come out completely clean.
6. Treat the bore of the barrel using a Barrel Blaster™ Rust Prevent Patch or a Bore Swab that has been lightly saturated with gun oil.

Note: Due to the suction created by the Electra's sealed breech, occasionally a patch may be sucked down the barrel as you remove the cleaning rod from the bore. A screw-tipped Patch/Bullet Puller is included in your tool kit for the express purpose of removing such patches (or even bullets, if one is loaded without powder). Simply attach the screw puller to the end of the ramrod, insert it into the bore and twist clockwise until the patch is engaged, then pull the patch from the bore. See Photo 4.

Photo 4

COMPLETE CLEANING METHOD

1. Turn the gun's On / Off Switch to the "OFF" position, making sure the Status Indicator Light is not lighted.
2. Remove the barrel from the stock by unscrewing the Barrel Retention Screws with the supplied wrench.
3. Swab the bore several full strokes with a properly fitting wet patch. We recommend this first patch to be wet with cleaning solvent. Follow with several dry patches.
4. Using the supplied tool, or a 6-point, 12mm, deep-well socket wrench, remove the breech plug, wet with cleaner and set aside. If the breechplug is difficult to remove, use the Breech Plug Removal Assist Rod to provide added leverage (See Photo 2). To install the Rod, turn the threaded end into one of the lower barrel lugs until tight. Next, lay the barrel down on a table or other flat surface with the Rod pointing to your left, insert the breech plug tool or socket wrench, and then turn counter-clockwise to remove the plug.

5. Use a properly fitting Bore Brush on a Range Rod or extended ramrod to scrub the bore. This loosens the accumulated fouling from the rifling.
6. Use several solvent soaked patches to remove the fouling (as an alternative to this step, use the Barrel Blaster Wonder Gel as per the instructions on the tube).
7. Push several dry, clean patches through the bore. Repeat step 4 and 5 as necessary until the dry patches come out clean. Use a Barrel Blaster Rust Prevent Patch or a patch dampened with rust preventing gun oil to coat the bore.
8. Brush the face of the breech plug then wipe of excess fouling with a solvent dampened patch (or soak it clean in the CVA Barrel Blaster Parts Soaker (CVA Part # AC1686). Apply Breech Plug Grease to the threads of the plug and install it back into the gun, tightening only finger tight. Do not over tighten as this may cause the breech plug to seize.
9. Use an oily rag or a Rust Prevent Patch to wipe down the exterior of the gun to prevent rust and corrosion.
10. Replace the barrel into the stock making sure to tighten the 2 barrel retention screws evenly and securely. Remember-the short screw goes in the forward position.

SCOPE MOUNTING

The CVA Electra is drilled and tapped for scope mounts. A DuraSight® Scope Rail is supplied and installed at the factory. While this mount is compatible with any Weaver-style ring, CVA strongly recommends that you use genuine DuraSight® Z-2 rings with this base (visit www.DuraSight.com for more information). These quality rings should be available from the CVA Dealer where you bought your rifle. If not, contact CVA Customer Service at 770-449-4687. Once you have your rings and you are ready to install your scope, check the rail base screws individually to make sure they are tight, and then follow the manufacturer's instructions on the scope ring package.

Tip: Take care to assure that the front bell of the scope is not contacting the barrel. Make sure that the rear bell of the scope is an appropriate distance from your eye so that you are not struck by the scope during recoil.

FOR SERVICE & REPAIR, PLEASE CALL (770) 449-4687, MONDAY – FRIDAY 8:30AM - 4:00PM EASTERN STANDARD TIME.

Should your CVA Electra require repair, please call our CVA Customer Service Department at 770-449-4687. We may be able to determine the problem and resolve the issue in a phone call. If we cannot correct the situation over the phone we recommend that you return the gun to our Warranty Repair Center. This will assure that our competent staff of trained technicians performs all work.

ELECTRA™

The World's First and Only Primerless Muzzleloader with the Patented ARC™ Electronic Ignition.

BUILT FOR PERFORMANCE

- 26" Bergara Barrel
- Quake™ CLAW® Sling
- DuraSight® Fiber Optic Sights and Scope Rail
- CrushZone™ Recoil Pad
- Extendible Ramrod
- Limited Lifetime Warranty

BERGARA BARRELS

DURASIGHT® SCOPE MOUNTING SYSTEMS

The Claw® ALL GRIP, NO SLIP QUAKE INDUSTRIES

CVA

America's #1 Muzzleloader

CVA • 5988 Peachtree Corners East • Norcross, GA 30071 • www.cva.com

Form 106
REV: 05/07

ELECTRA™

OWNER'S MANUAL

The World's First and Only Primerless Muzzleloader with the Patented ARC™ Electronic Ignition.

This manual contains important information for the safe and proper use and maintenance of your new Electra primerless muzzleloader. PLEASE read this manual carefully before loading and firing your Electra muzzleloader. If this firearm is loaned or sold by a dealer or individual, this manual must accompany the firearm. Replacement manuals can be ordered or questions answered by calling Customer Service at 770-449-4687 or by visiting www.cva.com.

CVA

America's #1 Muzzleloader

FASTER LOADING, FASTER IGNITION, FASTER CLEANING

Electra_PrintFile.indd 1 6/12/07 10:09:28 AM
Electra_PrintFile.indd_1cover04.indd 1 7/11/07 4:37:48 PM

Please return the entire gun even if you feel the problem is only with the barrel or the stock. A detailed letter of instructions should be enclosed to facilitate handling. Please be sure to include your name, shipping address, and a daytime phone number. All firearms must be unloaded and cleaned prior to shipping to CVA.

Our Repair Center will inspect and evaluate the problem. Should any work not be covered by warranty, you will be advised of the cost. No unwarranted work will be done without your approval. The address for the CVA Repair Center is:

CVA Repair Department
5988 Peachtree Corners East
Norcross, GA 30071

LIMITED LIFETIME WARRANTY

CVA warrants all factory-finished firearms to be free of defects in workmanship or materials. This Limited Lifetime Warranty only applies to the original consumer owner. This warranty is put into effect by the return of the authorized warranty card within 15 days of purchase and is not transferable. To save time and postage, the warranty information may also be transmitted electronically via our web site at www.cva.com.

Any covered CVA firearm or part thereof that is returned postage paid to the Repair Center or Customer Service Department will be repaired or replaced to our commercial standard, free of charge, and returned to the consumer postage prepaid.

This warranty does not cover damage to any structures, buildings, vehicles, persons or animals, or any other damage resulting from careless handling, improper loading, rust or corrosion, neglect, improper maintenance or customer alterations.

CVA reserves the right to refuse to repair or replace any firearm or parts thereof damaged by any of the above.

The warranty does not cover normal wear of any part, metal or stock finish, cost of inconvenience due to product failure, or transportation to the Repair Center.

This warranty gives you certain specific legal rights. You may also have other rights, which vary from state to state. This warranty is void if:

- Any propellant other than the correct type of blackpowder or blackpowder substitute is used.
- Unauthorized repair work has been performed by the owner or a third party.

- CVA recommended maximum powder charge or bullet weight has been exceeded.
- Any form of plastic patch has been used (sabots and PowerBelts™ not included).
- Gun is returned in an abused or neglected condition (rusty, corroded, etc.).
- The ARC Electronic Ignition housing has been opened and/or the electronics have been tampered with in any way.

OVERVIEW AND SAFETY WARNINGS

WARNING: YOU ARE RESPONSIBLE FOR FIREARM SAFETY! AS A GUN OWNER, YOU MUST ACCEPT A SET OF DEMANDING RESPONSIBILITIES. AT ALL TIMES YOU MUST HANDLE YOUR RIFLE WITH RESPECT FOR ITS POTENTIAL DANGERS. THE INFORMATION CONTAINED IN THIS MANUAL IS CRITICAL FOR THE PROPER USE AND CARE OF YOUR ELECTRA™ RIFLE. A SEPARATE *GENERAL SAFETY PROCEDURES / MANUAL* IS INCLUDED WITH YOUR GUN. DO NOT ATTEMPT TO LOAD OR FIRE YOUR GUN UNTIL YOU READ AND THOROUGHLY UNDERSTAND THE INFORMATION PROVIDED IN BOTH MANUALS.

Your CVA Electra muzzleloading rifle is different from any muzzleloader you have ever shot before. The ARC™ Electronic Ignition is an entirely new type of muzzleloading ignition system, and it is the technical heart of the Electra rifle. Therefore, it is extremely important that you familiarize yourself completely with the operational techniques which are essential to the proper use of this new technology. Certain portions of this manual that refer to such unique and/or important techniques are noted in YELLOW HIGHLIGHTS.

If, after reading the instructions and warnings detailed in this manual, you are not willing to accept the responsibilities involved in the safe handling and shooting of your Electra rifle, please return it unfired and in its entirety to the place of purchase. If you have any questions about the safe use of your gun, please visit our web site at www.cva.com, or write, call, or e-mail our Customer Service Department at:

5988 Peachtree Corners East
Norcross, GA 30071
770-449-4687
info@cva.com

NOTE: If you sell, trade, or give this gun to any other person, this owner's manual must accompany the firearm. Replacements are available free of charge from CVA, or online at www.cva.com.

YOU, AND ONLY YOU, ARE RESPONSIBLE FOR SAFELY CONTROLLING THE MUZZLE OF YOUR GUN. ALWAYS BE SURE THAT THE MUZZLE OF YOUR GUN IS POINTED IN A SAFE DIRECTION.

FEATURES OF THE ELECTRA™

The CVA Electra™ is the world's first electronic ignition muzzleloader. The Electra's ARC™ Electronic Ignition system utilizes a standard 9 volt battery, along with specialized circuitry and a high-performance capacitor, to deliver a high-voltage spark to the base of the powder charge. This eliminates the need for a percussion cap or shotgun primer. The result is a muzzleloading rifle that has lightning fast ignition time, is easier and faster to load, simpler to clean, more efficient in the burning of the powder charge, almost totally weather-proof, and extremely accurate.

The CVA Electra rifle also features a state-of-the-art Bergara Barrel™ that is manufactured in one of the world's most highly respected gun-making regions -- Northern Spain. These Bergara Barrels™ are made on the most modern and precise barrel making machines in the world. After precision deep-hole drilling, the barrel blank is honed to size in a three-step process using diamond-coated tools. This honing process leaves a finish that is far smoother than traditional reaming and is ideal for the button rifling process. Bergara Barrels are the highest quality production muzzleloading barrels in the world and will provide unmatched accuracy. Please visit www.BergaraBarrels.com for more information.

BATTERY INFORMATION

Your Electra rifle is equipped with a quality 9-volt alkaline battery, which should be installed into the battery housing (see Photo 1). This battery will give you excellent performance under normal shooting and hunting conditions. **However, if you live or hunt where the temperature is regularly below 30 degrees Fahrenheit, you will have better results with a lithium battery. Lithium batteries are designed to function perfectly even in sub-zero temperatures.** Lithium batteries are available in most camera, electronic and specialty battery shops. As a service to our customers, CVA provides a quality lithium battery at a reasonable price (CVA Part # AC1618). Therefore, if you have difficulty finding 9-volt lithium batteries in your area, you may purchase them at your local CVA Dealer or through CVA's Customer Service Department (1-770-449-4687).

The ARC Electronic Ignition is very efficient in its use of battery power.

A 9-volt lithium battery should, with proper care and handling, allow the system to spark up to 500 times. Even if the gun is inadvertently left in the "ON" position for an extended period of time, the battery life of a lithium battery should exceed 600 hours (25 days). However, in order to preserve the battery life, it is recommended that you turn the ARC Electronic Ignition off when the gun is not in use. Alkaline battery life will be somewhat less, depending on conditions.

Photo 1

As a general rule of thumb, we recommend that you replace the battery at the beginning of each hunting season, or if you find that the ARC Electronic Ignition has been left "ON" for an undetermined period of time. During long-term storage, the battery should be removed to prevent possible damage to the rifle in case of battery leakage.

TURNING YOUR ELECTRONIC ARC™ IGNITION SYSTEM ON/OFF

The Main Power Switch is located to the rear of the trigger guard. Use your fingers to turn the switch to the "ON" or "OFF" position as needed. Turning the switch to the "OFF" position fully disarms the electronic circuits. Turning the switch to the "ON" position re-starts the charging of the circuits. The LED Status Indicator Light (see below) will confirm the mode.

LED STATUS INDICATOR LIGHT

Located just behind the safety switch, the red LED light indicates the following conditions.

- **NO LIGHT -- The main power switch is in the "OFF" position. Or, if the switch is in the "ON" position, this would indicate that the battery is dead.**
- **SOLID -- The capacitor is in the process of charging. This stage lasts approximately 25 to 30 seconds. WARNING-Although it takes 25 to 30 seconds to fully charge the capacitor for the optimum spark, only approximately 13 - 15 seconds are required to provide enough voltage to create a weaker, but potentially effective spark. Your Electra rifle should be considered capable of firing whenever the main power switch is in the "ON" position. Therefore, the Status Indicator Light should not be used as a "safety."**
- **FLASHING -- When the light is flashing approximately once each second, the circuits are fully charged and the ARC Electronic Ignition is ready to spark with full power.**

- **RAPID FLASHING -- Indicates the circuits are charged and ready to fire, but that the battery is reaching the end of its useful life and should be replaced as soon as possible. Rapid flashing that occurs when a battery is replaced indicates a weak battery has been installed.**

Note: LED lights can sometimes fail. Therefore, the Electra should always be treated as if it is ready to fire, regardless of the status indicated by the Status Indicator Light.

PREPARING YOUR NEW ELECTRA RIFLE FOR USE

1. After fully reading and understanding this manual, remove the gun and the included tools (Breech Plug Wrench, Breech Plug Removal Assist Rod, Allen Wrench, Electra Breech Plug Brush, Patch/Bullet Puller) from the box.
2. Safety First! Verify that the gun is unloaded and the barrel is clear! Do this by inserting the ramrod into the barrel (do not extend the jag). The ramrod should stick out of the barrel only about 1/8". If it sticks out farther than this the barrel must be considered loaded and/or obstructed and should not be loaded or fired until the barrel is completely cleared.
3. Check all mechanical functions described in this manual.
4. Using the supplied Allen wrench, remove the 2 barrel retention screws and lift barrel from stock.
5. Remove the breech plug by unscrewing it using the provided tool (and using the Breech Plug Removal Assist Rod for added leverage, if necessary). See Photo 2.

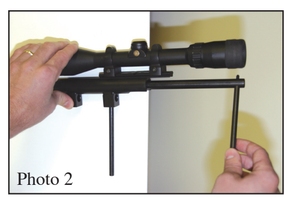
Photo 2

6. Clean the shipping grease from the inside and outside of the barrel.
7. After fully coating the threads with CVA Breech Plug Grease or some other high quality anti-seize compound, replace the breech plug. Turn it in only until it is snug. *Do not over tighten.*
8. Replace the barrel in the stock and tighten the barrel retention screws firmly and evenly. The short screw goes in the forward position.

9. Install the battery, making sure the positive and negative terminals are correctly aligned as indicated on the rim of battery compartment. The battery housing is easily accessible -- located inside the pistol grip cap, and opened by removing the 2 cap screws with either a screw driver or a coin. See Photo 1.

NECESSARY LOADING ACCESSORIES

These are the items you will need to successfully load and prepare your Electra muzzleloader for firing.

- **Propellant** -- Blackpowder or an approved blackpowder substitute.
- **Projectile** -- PowerBelt™ Bullet, saboted bullet, or conical bullet.
- **Powder Flask** -- For carrying a supply of loose powder (not necessary with pelletized powder).
- **Powder Measure** -- For measuring the correct volume of loose powder and for transferring a single charge to the muzzle of the gun (not required with pelletized powder).
- **Bullet Starter** -- To start the bullet into the muzzle of the gun.
- **Speed Loader** -- To carry extra pre-measured powder charges and bullets for quick reloading.
- **Range Rod** -- The Range Rod is a long, heavy duty rod used for loading at the range and for cleaning. It is easier to use than the under barrel rod, which is essentially only intended for in-the-field reloading.

NECESSARY CLEANING ACCESSORIES

These are the items you will need to properly clean your muzzleloader, both between shots and before storage.

- **Electra Breech Plug Brush (Included) – This brush attaches to the end of the cleaning rod and is used to clean the breech face of fouling. This brush should be used, at a minimum, after the firing of 5 successive shots, to remove any build up of fouling on the electrodes.**
- **Range Rod** -- The Range Rod is a long, heavy duty rod used for loading at the range and for cleaning. It is easier to use than the under barrel rod, which is essentially only intended for in-the-field reloading.
- **Patch/Bullet Puller (Included) -- The Patch/Bullet Puller is used to retrieve patches that may become lodged in the barrel during the cleaning process.**
- **Cleaning Jag (.50 Cal.)** – This ramrod attachment holds the cleaning patch to the cleaning rod.
- **Bore Brush (.50 Cal.)** – This ramrod attachment is used to loosen fouling in the barrel prior to cleaning.
- **Breech Plug Wrench (included)** – This tool is used to remove the breech plug from the gun when employing the Complete Cleaning Method. A 12mm, deep-well socket wrench can also be used for this purpose.

- **Breech Plug Removal Assist Bar (Included) – This "leverage bar" screws into the barrel lug on the underside of the barrel and provides greater leverage for easy removal of the breech plug. See Photo 2.**
- **Allen Wrench (Included) –** This wrench is for use in the removal of the Barrel Retention Screws, allowing separation of the stock from the barrel when employing the Complete Cleaning Method.
- **Cleaning Patches –** These patches are used to clean fouling from the barrel bore. They may be standard cleaning patches or pre-saturated.
- **Cleaning Solvent** – Cleaning solvents allow easy removal of fouling from the barrel. CVA Barrel Blaster™ Wonder Gel (CVA Part # AC1684) is recommended.
- **Rust Preventative** – Used to coat the bore of the barrel after cleaning. CVA Barrel Blaster™ Rust-Prevent Patches (CVA Part # AC1689) are recommended.

PROPELLANTS

All CVA Electra muzzleloaders are capable of handling a "magnum charge" of propellant up to 150 volume equivalent grains of pelletized powder (typically charges of loose powder exceeding 110 grains will not fully burn in the barrel).

All muzzleloader shooters are limited in their choices of propellants. Only the following propellants should be considered as being safe for use:

- **BLACKPOWDER** - Blackpowder is available in several granulations (the average size of each particle of the powder) which are rated as FG, FFG, FFFG, and FFFFG. ONLY FFG POWDER OR ITS EQUIVALENT GRANULATION OF BLACKPOWDER SUBSTITUTE SHOULD BE USED IN YOUR CVA MUZZLELOADING RIFLE. The use of other granulations may result in improper burning or higher than acceptable pressures.

- **BLACKPOWDER SUBSTITUTES** - Safer and cleaner burning substitutes for blackpowder have been developed and are perfectly suitable for use in your Electra muzzleloader. Some of the brands available at the time of this printing are Hodgdon's Pyrodex™ and Triple Seven™, American Pioneer Powder™, Goex Pinnacle™, and Black Mag3™. Some of these are available in both granular and pellet form. An important thing to remember is that individual rifles will perform differently with the same propellant and bullet combinations. **Each of these blackpowder substitutes have their own unique performance characteristics in the Electra. For example, some propellants that may be the most accurate may also be the most difficult to clean. Others that are very clean burning may be less accurate. Therefore, CVA recommends that you try several propellants to see which one best suits your particular needs. Factors to be considered are the likely distances of the shot, weather conditions, convenience of cleaning, etc.** Please refer to the propellant manufacturer's written instructions for the specific propellant you are using.

If you have technical questions concerning your propellant, please visit the manufacturer's web site or contact their Customer Service Department. Contact info should be provided on the product label or instructions brochure.

WARNING: NEVER USE ANY AMOUNT OF MODERN SMOKELESS POWDER IN ANY MUZZLELOADER! The use of any amount of modern smokeless powder in a muzzleloader will create dangerously high pressures upon ignition which may burst the barrel, possibly resulting in severe injury or death to the shooter and/or bystanders. The use of smokeless powder will immediately void your gun's warranty.

PROJECTILES

- POWERBELT™ BULLETS- PowerBelt™ Bullets are conical projectiles with a patented plastic base designed to create a perfect gas seal, and thereby trap the pressures created by the explosion of the propellant. This provides consistent pressures, which results in the consistent velocities necessary for excellent accuracy. Unlike most sabots, the PowerBelt™ bullet is easy to load and leaves no plastic residue to foul the barrel. All weights of PowerBelt™ bullets can be used in CVA rifles. PowerBelt™ bullets are specifically recommended by CVA for all in-line rifles. For more information visit www.PowerBeltBullets.com

- SABOTED BULLETS -- The sabot is a plastic sleeve that is utilized to hold a smaller-than-bore diameter bullet tightly in the bore. Saboted bullets from various manufacturers have been tested and found to deliver acceptable accuracy in CVA muzzleloaders when used in accordance with the sabot manufacturer's instructions. Sabots typically leave a heavy plastic fouling in the bore requiring cleaning of the barrel between each shot. Specific bore solvents may also be necessary to remove the plastic fouling. An exception to this is the CVA SlickLoad™ Sabot, which is specifically designed to eliminate these common problems. CVA specifically recommends SlickLoad Sabots for use in all in-line rifles. CAUTION: Do not use saboted bullets weighing more than 350 grains in your CVA rifle.

- CONICAL BULLETS- These pure lead, pre-lubricated bullets are an economical choice and provide acceptable accuracy as well as good "knock-down" power. These bullets tend to foul the bore with both lead and residual lubricant. To maintain acceptable accuracy, the bore will have to be cleaned before each shot. CAUTION: Do not use conical lead bullets weighing more than 400 grains in your CVA rifle.

RECOMMENDED PROPELLANT CHARGES

The proper "powder charge" for any muzzleloading firearm is a load that provides reliable ignition and consistent velocity while keeping breech pressures

below the maximum safe levels. It is important to remember that shooting muzzleloaders is not an exact science. Each individual rifle may have its own preference in propellant type, propellant charge, bullet type, and bullet weight. The accuracy minded muzzleloader shooter must be willing to experiment to some degree if he is to find the "perfect load" for his rifle.

It is recommended that you start shooting with 100 grains of propellant. If using granular powder, remember that powder propellants are measured by volume – not by actual weight. Experimentation with greater and lesser measurements of powder volume will enable you to find the most accurate load for your Electra rifle. The maximum recommended load is 120 grains equivalent, by volume, of granular (loose) powder -- or 150 grains equivalency of pelletized propellant. If you have any questions regarding these instructions, please call CVA Customer Service immediately at 770-449-4687 or email at info@cva.com.

LOADING YOUR CVA ELECTRA MUZZLELOADING RIFLE

Warning: Before attempting to load and shoot your rifle, protect your eyes and hearing with appropriate safety equipment.

WARNING: NO MECHANICAL SAFETY SHOULD EVER BE RELIED UPON TO TAKE THE PLACE OF SAFE GUN HANDLING!

1. Verify that your rifle is unloaded and the bore is unobstructed.
2. **Swab the bore with a dry patch, rotating it aggressively clockwise and counter-clockwise on the breech plug face to remove all oil and/or moisture from the electrodes.**
3. Turn the Main Power Switch to the "ON" position and allow the rifle to charge. The LED Status Indicator Light behind the safety switch will glow solid red until the unit is charged, at which time it will begin to flash. This should take about 20 seconds.
4. **With the rifle pointing in a safe direction, push the Safety Switch forward, then pull the trigger to discharge a spark at the breech plug (you should be able to hear the ignition of the spark in the barrel). If you don't hear the spark, run a patch to the breech plug face and rotate it on the face of the plug to remove any excess oil or moisture, and then repeat the process. Note: The Safety Switch should reset to the "SAFE" position after each firing.**
5. **Pour a small amount (30 to 40 grains) of loose powder or drop one pellet of pelletized powder into the bore of the gun and repeat this step. Then, with the muzzle pointed in a safe direction, pull the trigger. The small "fouling charge" should ignite, burning off any residual oil or moisture which may be remaining on the face of the breech plug or in the barrel. If the charge does not ignite, allow the ARC Electronic Ignition to recharge and pull the trigger again. If there is still no ignition, dump the propellant charge and repeat the process above, starting with step 4.**

Electra Print File.indd 2 7/11/07 4:37:49 PM